

FIG. 1



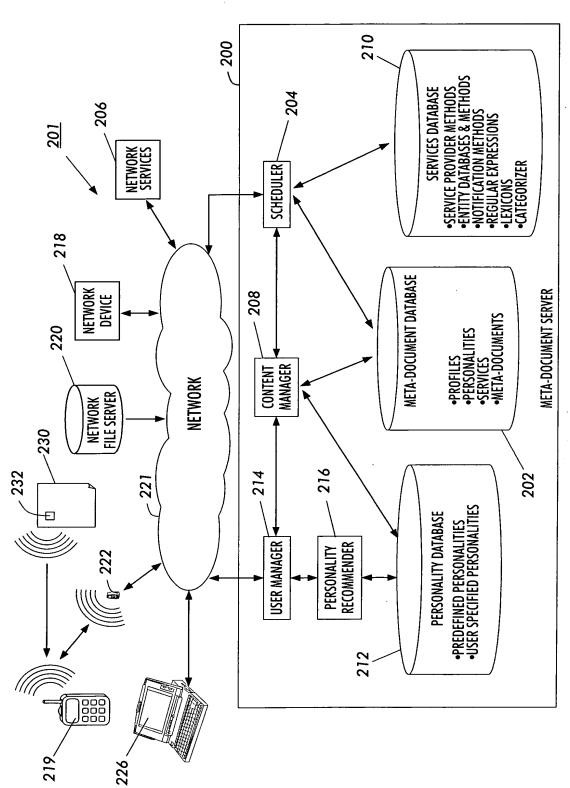


FIG. 2



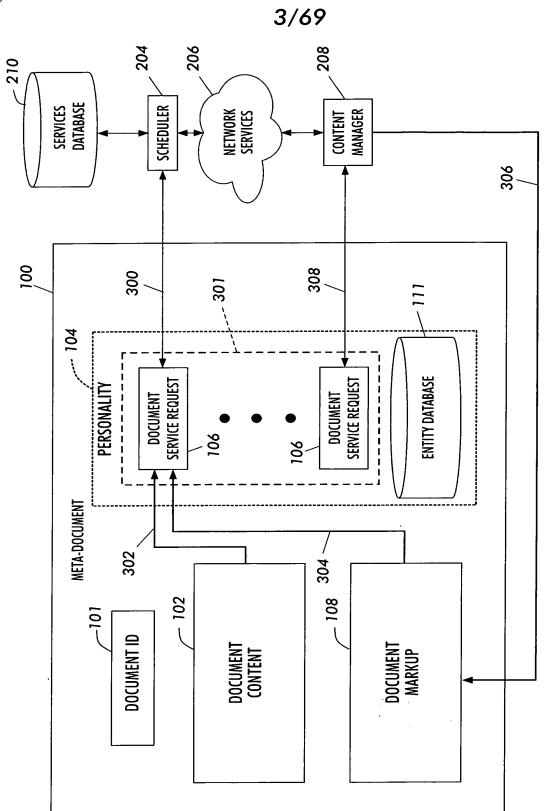


FIG. 3



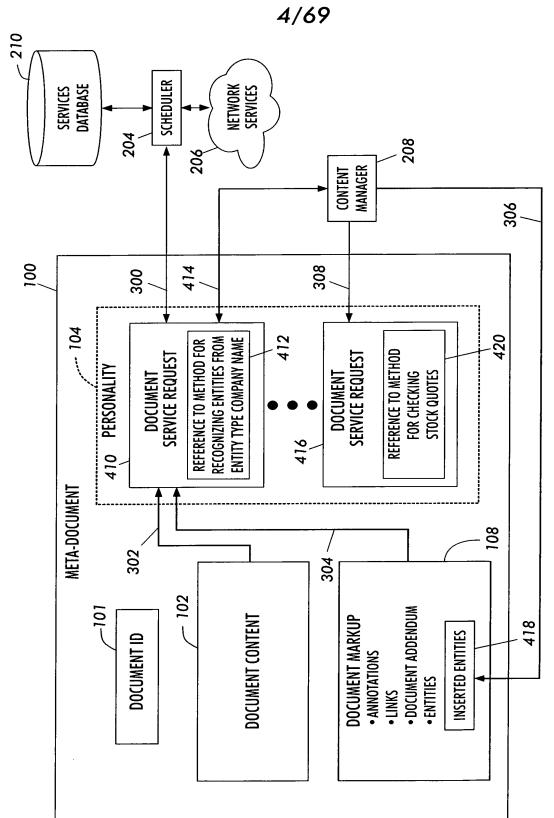
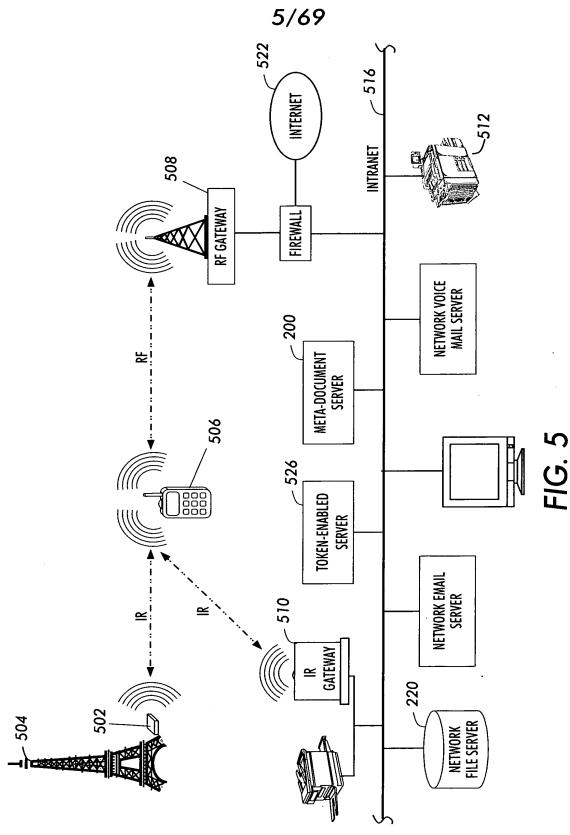
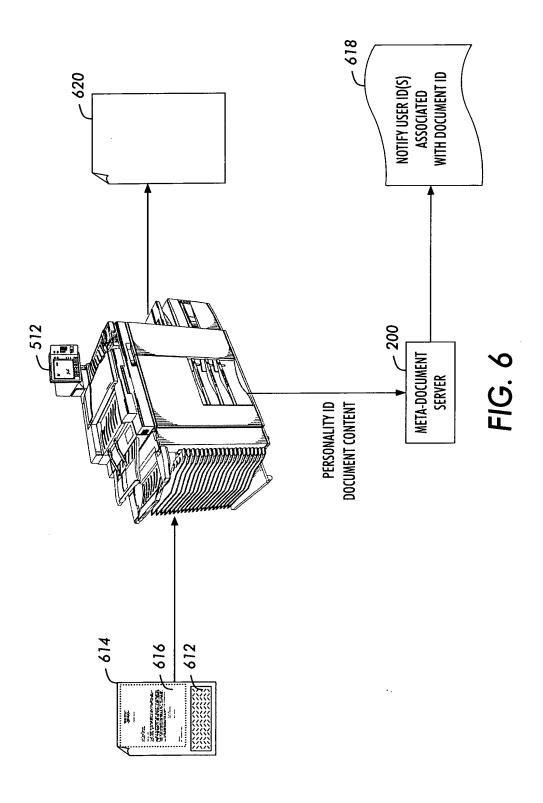


FIG. 4



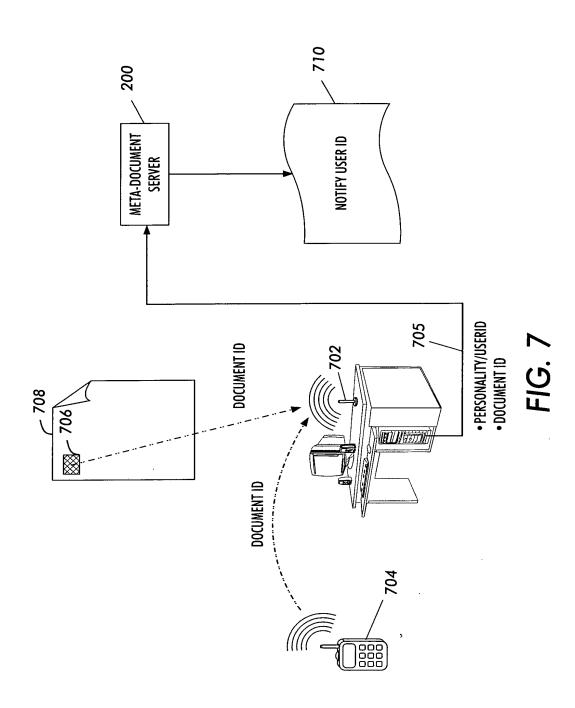














PRINT ? X
PRINTER MAME: NAME: NAME: NAM
PAGE RANGE
ENRICHMENT
808 ZOOM 802 810 PRINT WHAT: DOCUMENT ▼ PAGES PER SHEET: 1 PAGE ▼ PRINT: ALL PAGES IN RANGE ▼ SCALE TO PAPER SIZE: NO SCALING ▼ OPTIONS OK CANCEL
800

FIG. 8



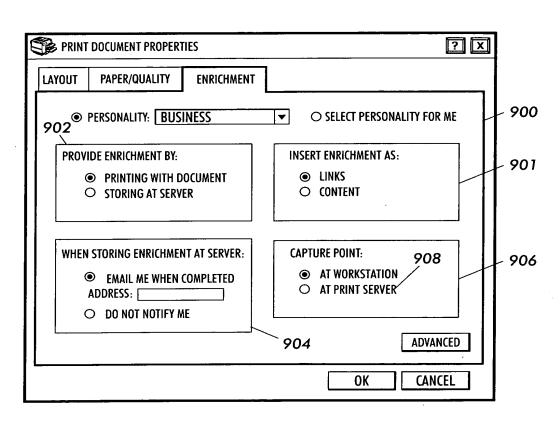


FIG. 9

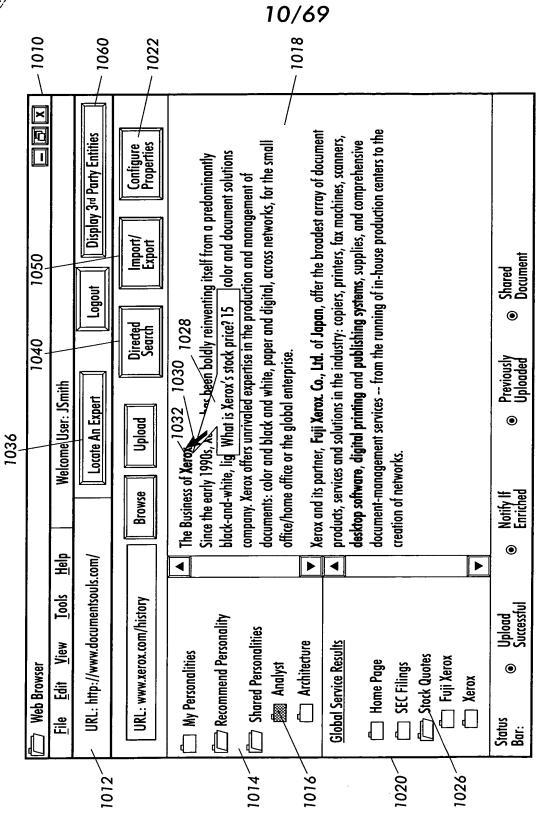


FIG. 10



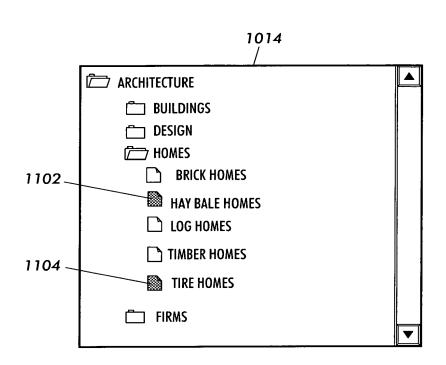


FIG. 11



	1210
PROPERTIES FOR USER JSMITH	? X
LAYOUT SHARING PERSONALIT	TIES 1214
0 DEFAULT: ANALYST	RECOMMEND PERSONALITY FOR ME 1220
PROPAGATE ENRICHMENT BETWEEN DOCUMENTS: NO SYES	INSERT ENRICHMENT AS: 1222 CONTENT AUTOMATICALLY DETERMINE TO LINK OR INSERT CONTENT
WHEN DOCUMENT ENRICHED NOTIFY ME BY: 1205 VOICE MESSAGE 1206 EMAIL 1207 SMS TEXT MESSAGE	AUTOMATICALLY COMPLETE CITATIONS: NO VES, DEPTH: 4
ORGANIZE MY PERSONALITIES 124	O CREATE/MODIFY MY PERSONALITIES
	1216 OK CANCEL

FIG. 12



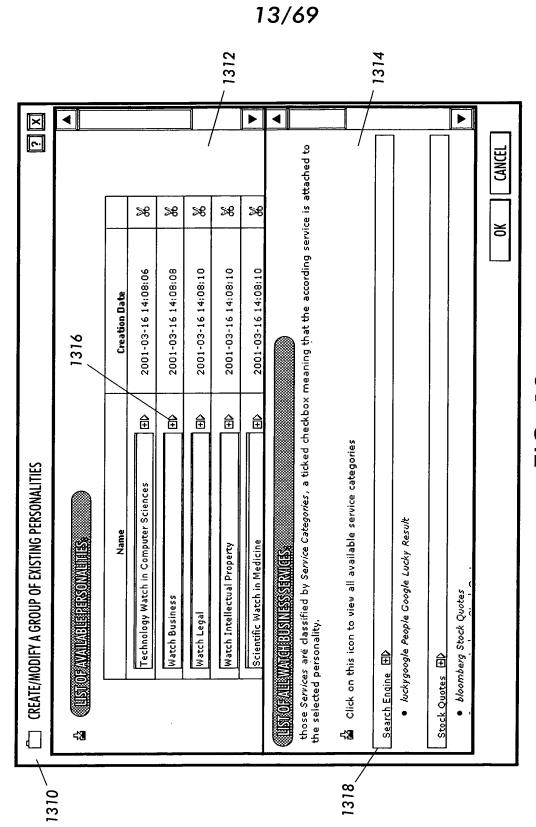
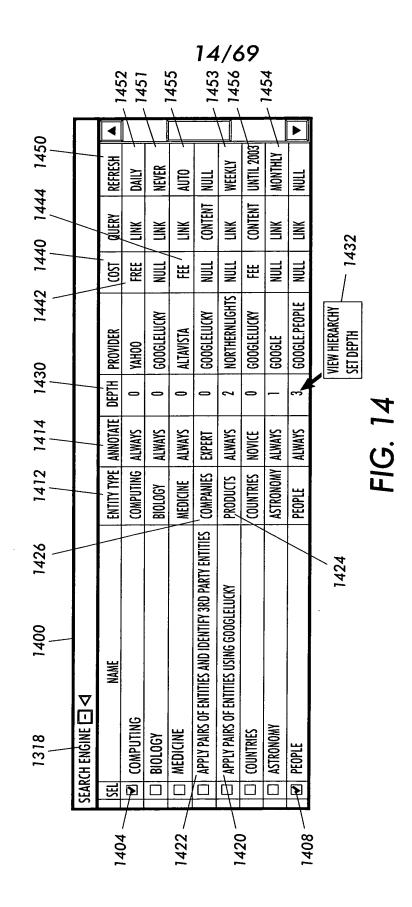


FIG. 13







	1502 /
CRE	ATE/MODIFY MY PERSONALITIES
NAA	ME: BROWSE 1504
•	CREATE/MODIFY A GROUP OF EXISTING PERSONALITIES 1506
0	USE SELECTED DOCUMENTS AND/OR FOLDERS TO CREATE A NEW PERSONALITY BROWSE 1508
0	USE SELECTED FILE/WEBSITE TO CREATE A NEW PERSONALITY BROWSE 1510
0	CREATE QUESTION FORM USING PERSONALITY LEXICONS QUESTION: 1520
	KNOWLEDGE ® NOVICE LEVEL: O EXPERT 1512 OK CANCEL

FIG. 15



1600	
CREATE/MODIFY A GROUP OF EXISTING PERSONALITIES	? X
NAME: TECHNOLOGY WATCH IN ORGANIC CHEMISTRY	
OPERATION:	
MERGE 1602	
O SUBTRACT——1604	·
PERSONALITY A	
. WITH/FROM	
PERSONALITY B ▼	·
ОК	CANCEL

FIG. 16



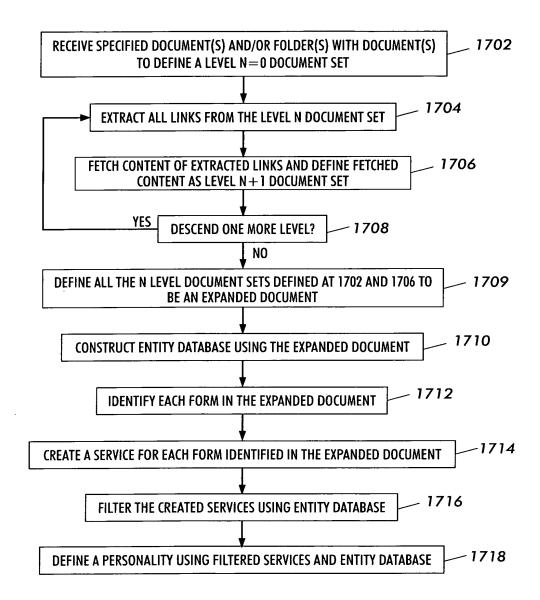
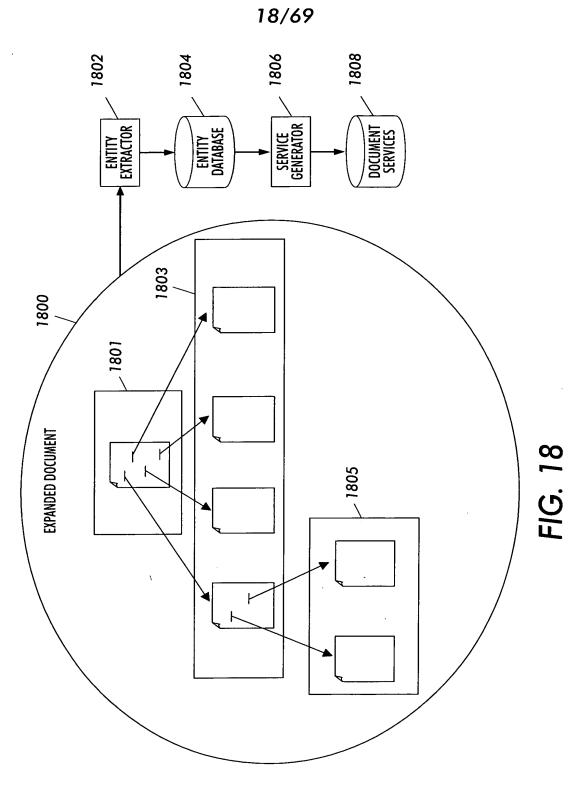


FIG. 17







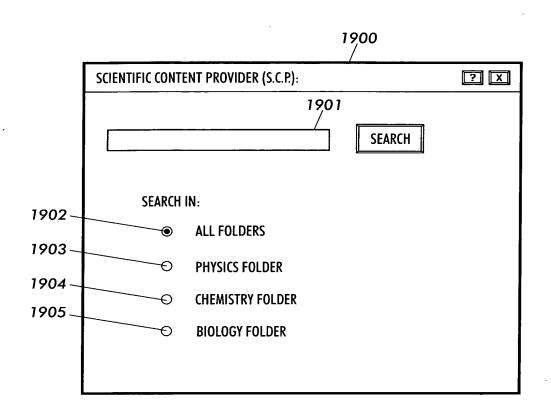


FIG. 19



ISI	CCIENTIFIC SEARCH □⊲								
S	EL NAME	ENTITY TYPE ANNOTATE DEPTH	ANNOTATE	DEPTH	PROVIDER	LCOST	COST QUERY	REFRESH	◀
	ALL FOLDERS RESULT OF SCIENTIFIC CONTENT PROVIDER STANDARD ALWAYS	STANDARD	ALWAYS	0	S. C. P.	FREE	CONTENT	NULL	
	PHYSICS RESULT OF SCIENTIFIC CONTENT PROVIDER	PHYSICS	ALWAYS	0	S.C.P.	FREE	CONTENT	NALL	
ᆜ	CHEMISTRY RESULT OF SCIENTIFIC CONTENT PROVIDER	CHEMISTRY ALWAYS	ALWAYS	0	S.C.P.	FEE	CONTENT	NULL	
ш	☐ BIOLOGY RESULT OF SCIENTIFIC CONTENT PROVIDER	BIOLOGY ALWAYS	ALWAYS	0	S.C.P.	FREE	CONTENT NULL	NULL	
	2002	2004							
		Ī.	FIG 20	Ç					



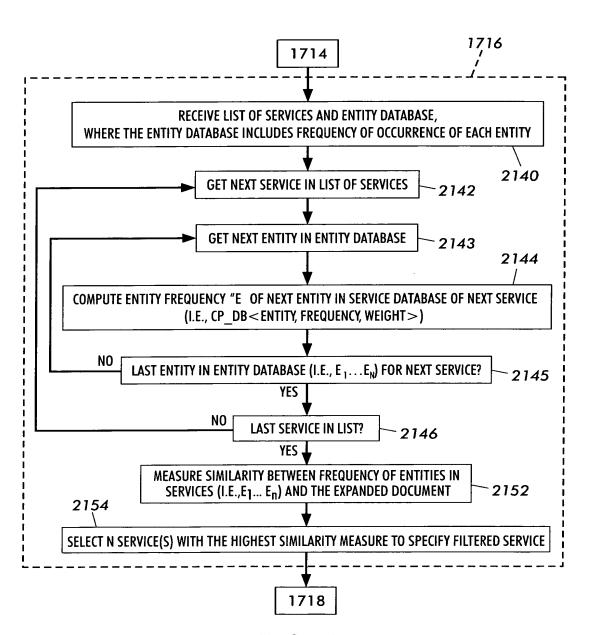


FIG. 21



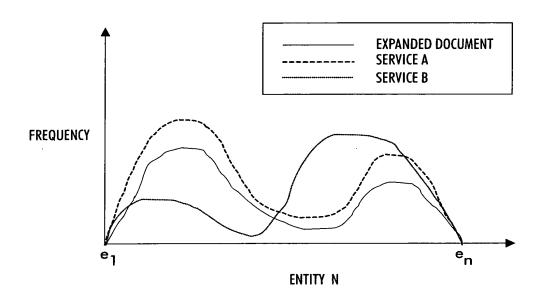


FIG. 22



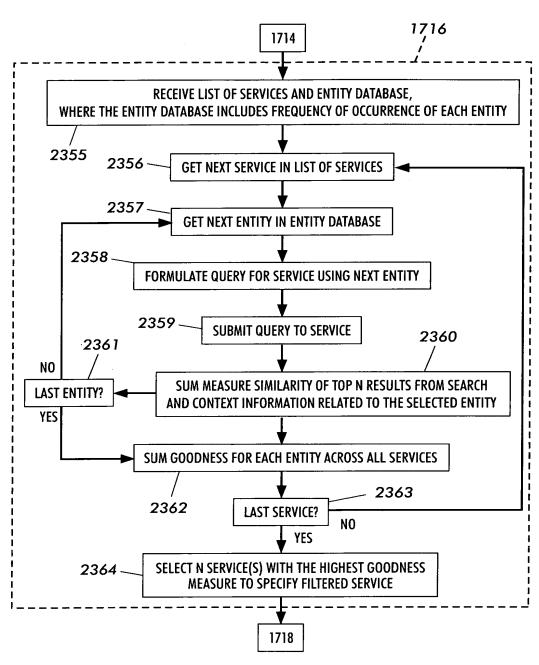


FIG. 23



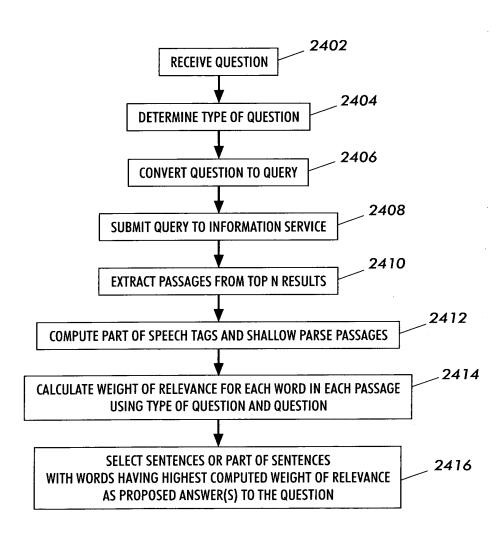
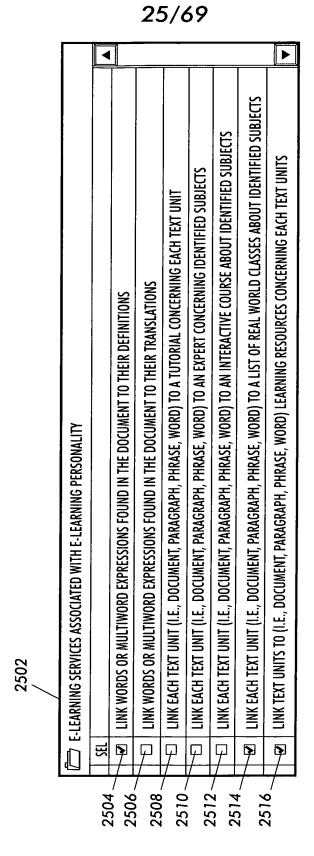


FIG. 24







▶ ◀ LINK EACH WORD, MULTIWORD EXPRESSION, PHRASE OR SENTENCE TO ONE OR MORE INTERACTIVE GRAMMAR EXERCISES CONCERNING THAT ELEMENT LINK EACH WORD, MULTIWORD EXPRESSION, PHRASE OR SENTENCE TO OTHER INSTANCES OF THE SAME IN DIFFERENT CONTEXTS FROM THE PRESENT LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A LIST OF REAL WORLD CLASSES ABOUT IDENTIFIED LANGUAGE LINK TEXT UNITS TO (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LANGUAGE LEARNING RESOURCES CONCERNING EACH TEXT UNITS LINK EACH SENTENCE, OR PHRASE, TO A GRAMMATICAL DESCRIPTION OF THE STRUCTURE OF THE SENTENCE OR PHRASE LINK WORDS OR MULTIWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR TRANSLATIONS LINK WORDS OR MULTIWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR DEFINITIONS LANGUAGE LEARNING SERVICES ASSOCIATED WITH LANGUAGE LEARNING PERSONALITY 2602 P 9 $\overline{\varphi}$ Þ Ş 2616 2612 -2614_ 2606_ 2608_ 2610_{-}



	2710
STOCK QUOTE OPTIONS	? X
2718	2720
PROPERTIES UPDATE FREQUENCY: EVERYDAY INSERT INFORMATION AS: STATIC 2714 APPLY SERVICE BEHAVIOR TO	AS FOOTNOTE TO DETERMINE AUTOMATICALLY 2716 2724
○ ALL DOCUMENTS⑥ CURRENT DOCUMENT	2712
○ SELECTION ONLY	OK CANCEL

FIG. 27



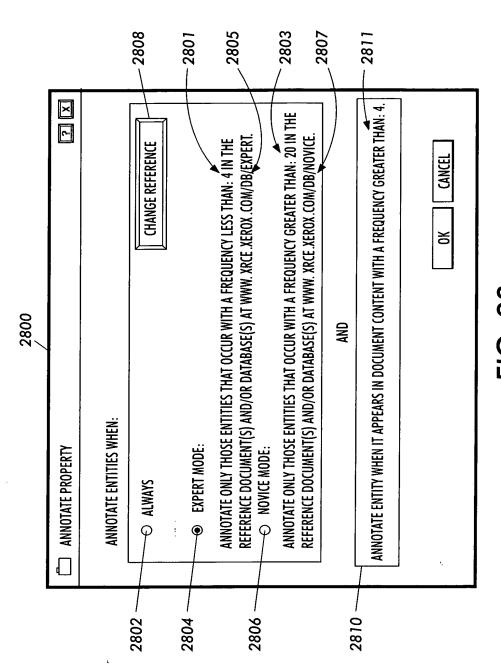


FIG. 28



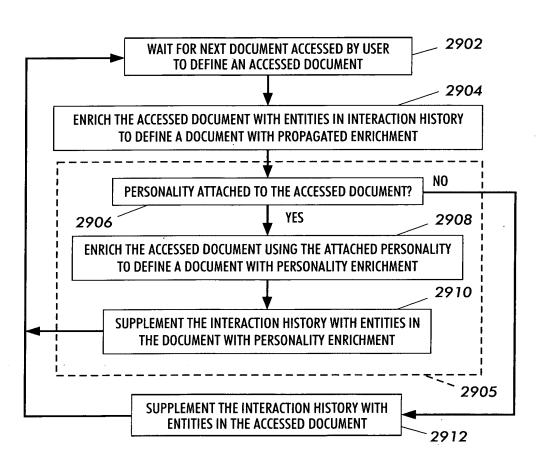


FIG. 29



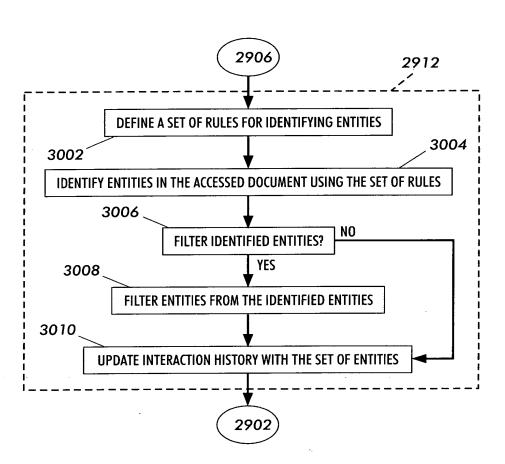
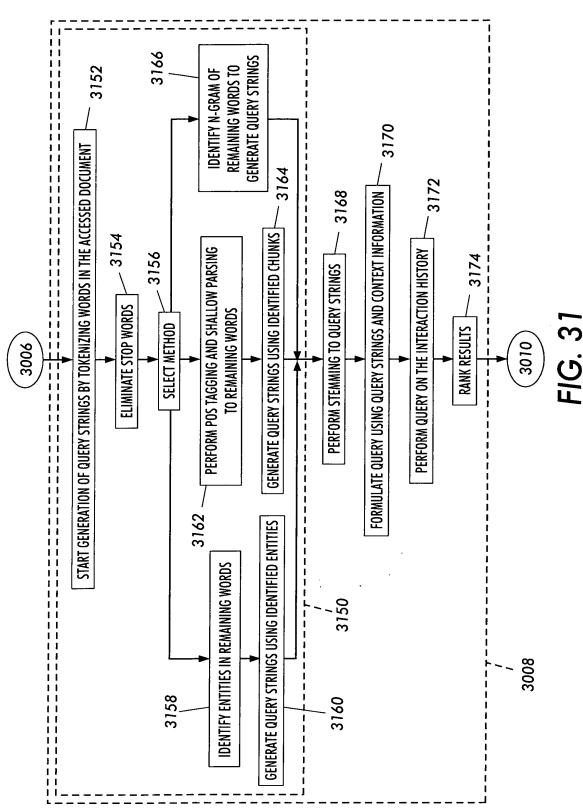
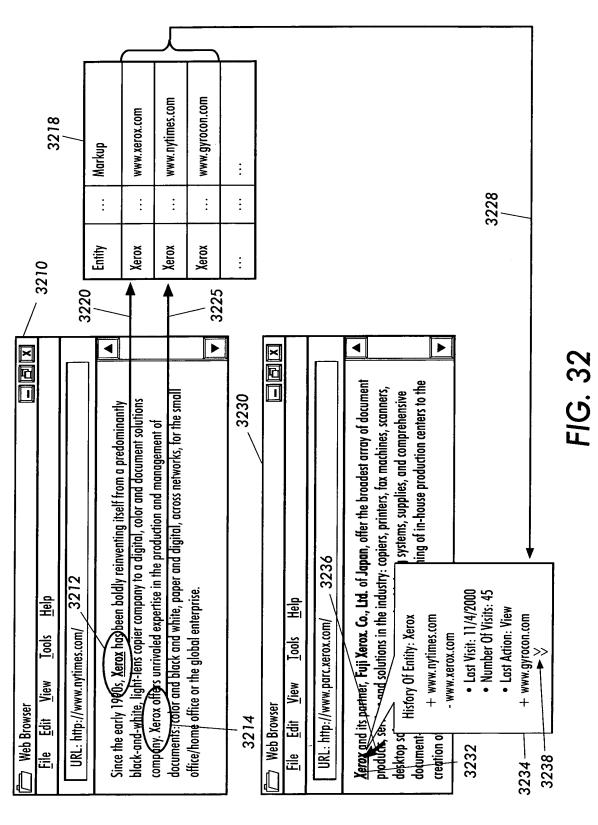


FIG. 30











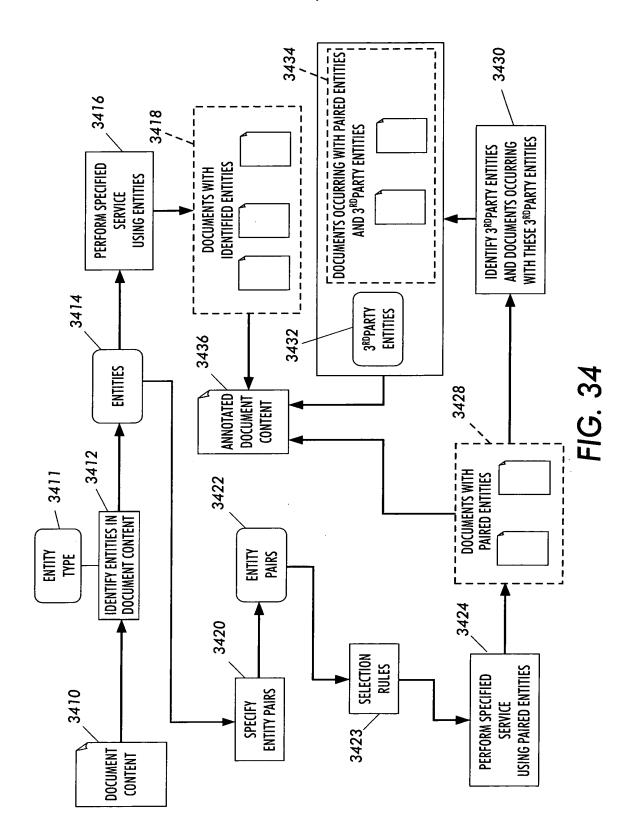
	MARKUP	WWW.XEROX.COM	WWW.NYTIMES.COM	WWW.GYROCON.COM	•••
	POS	NOON	NOON	NOON	
	LOCATION POS	40	689	343	•••
3218	DM0Z Category	BUSINESS	FINANCE	COMPUTER 343	•••
		VIEW (43), PRINT(2)	(L)M3IA	EMAIL(1), VIEW(3)	
	LAST VISIT	11/4/2000	5/1/2001	2/22/2001	•
	VISITS	45	1	4	:
	ENTITY TYPE VISITS LAST VISIT ACTION LIST	BUSINESS	BUSINESS	BUSINESS	:
	ENTITY	XEROX	XEROX	XEROX	:

FIG. 33

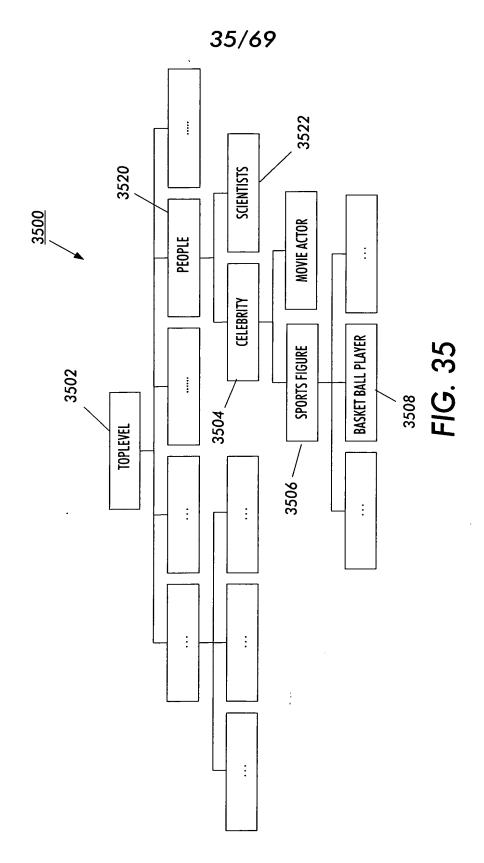




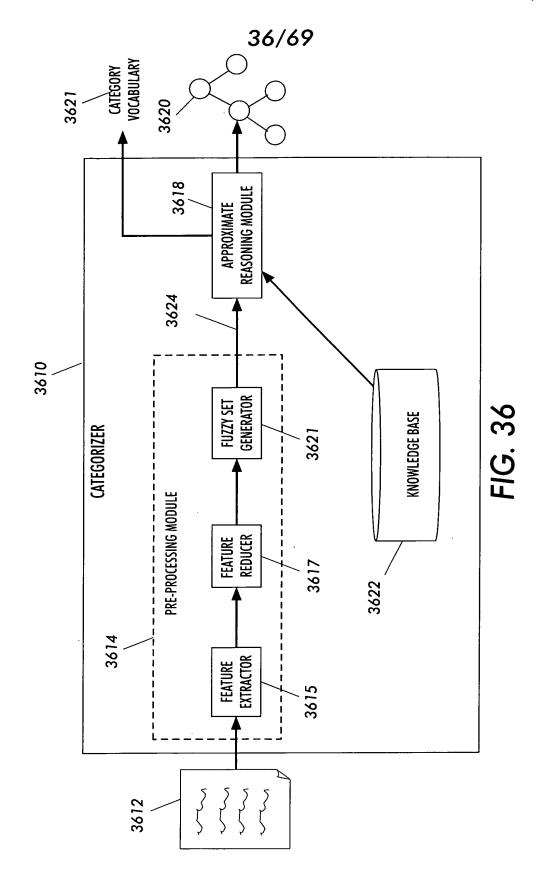




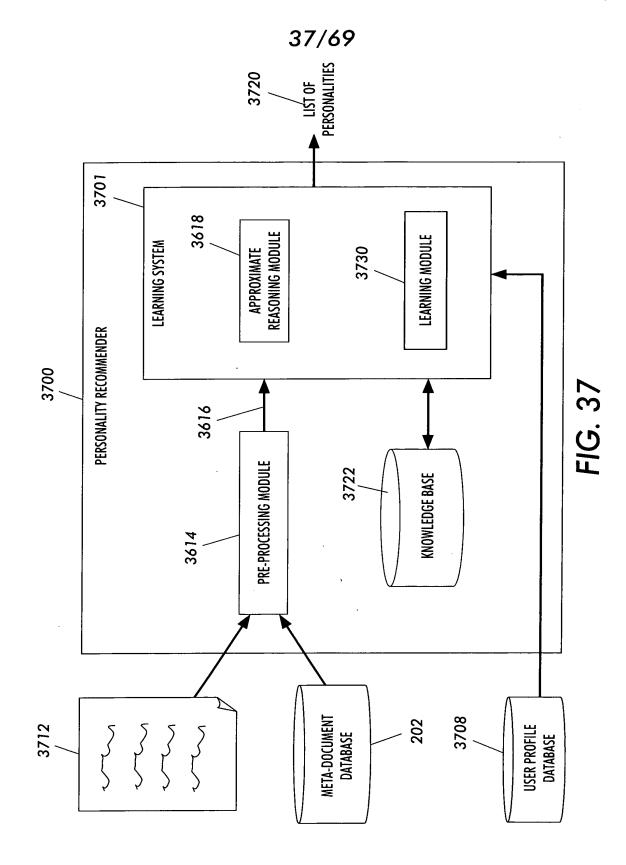




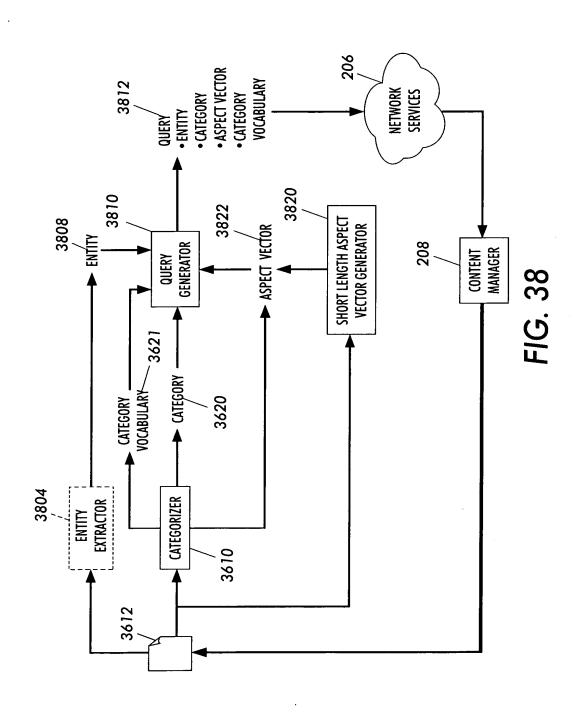














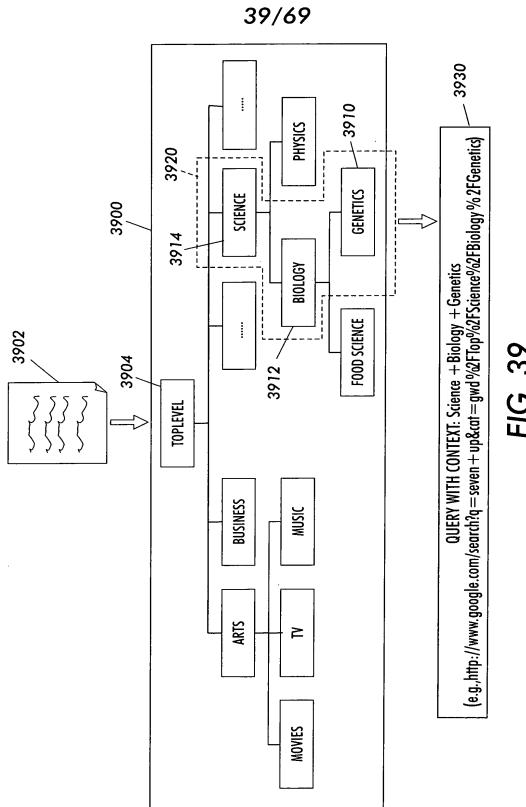
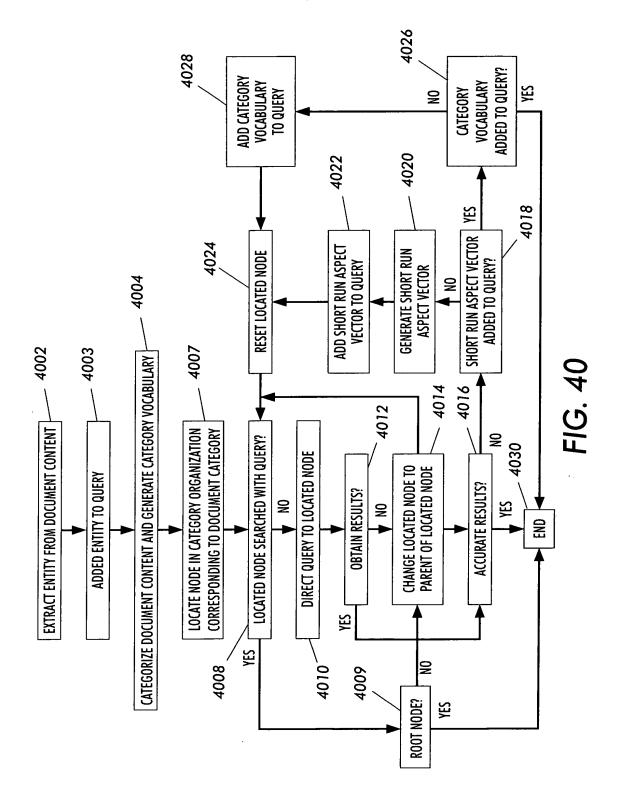


FIG. 39







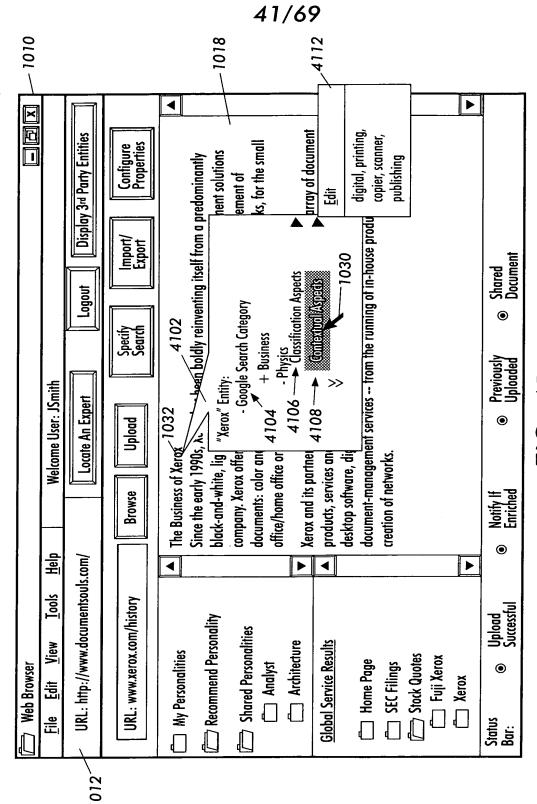
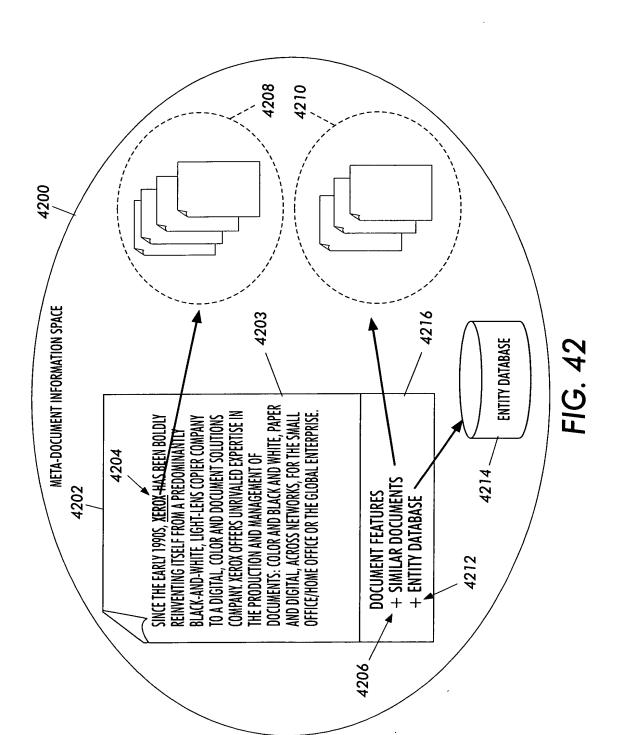


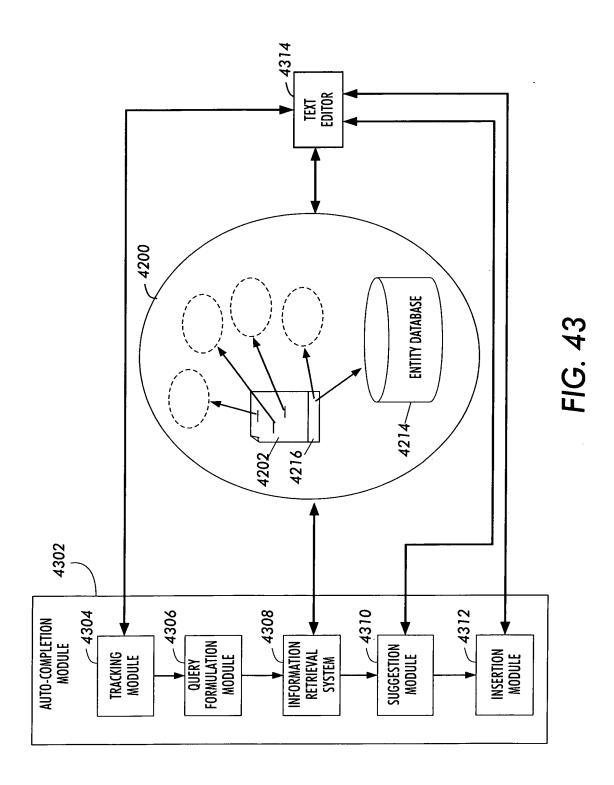
FIG. 41



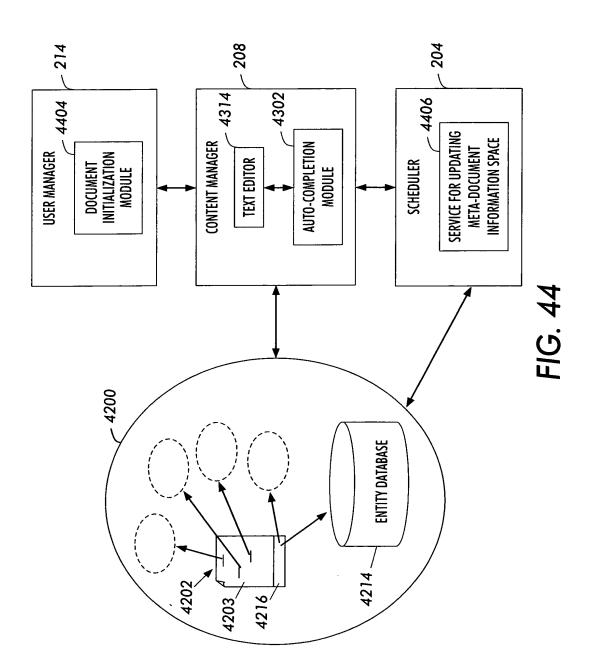




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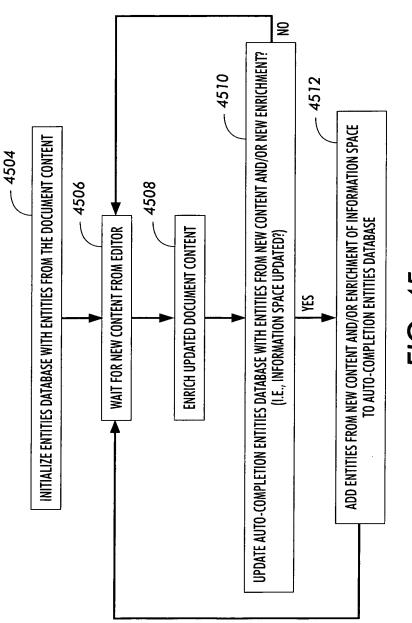


FIG. 45



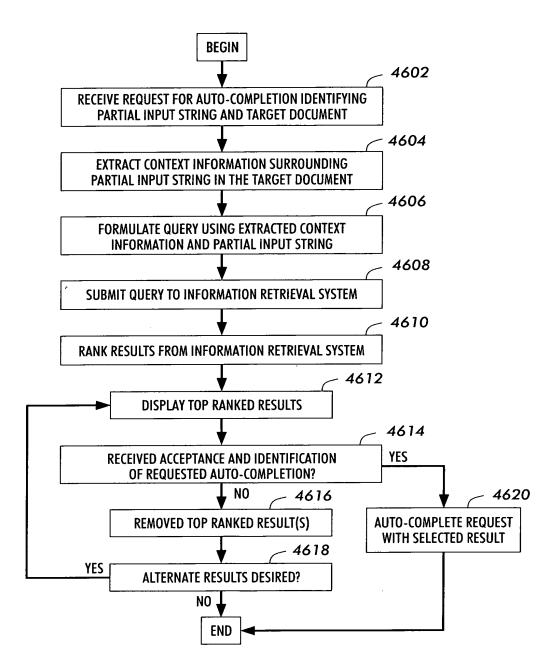
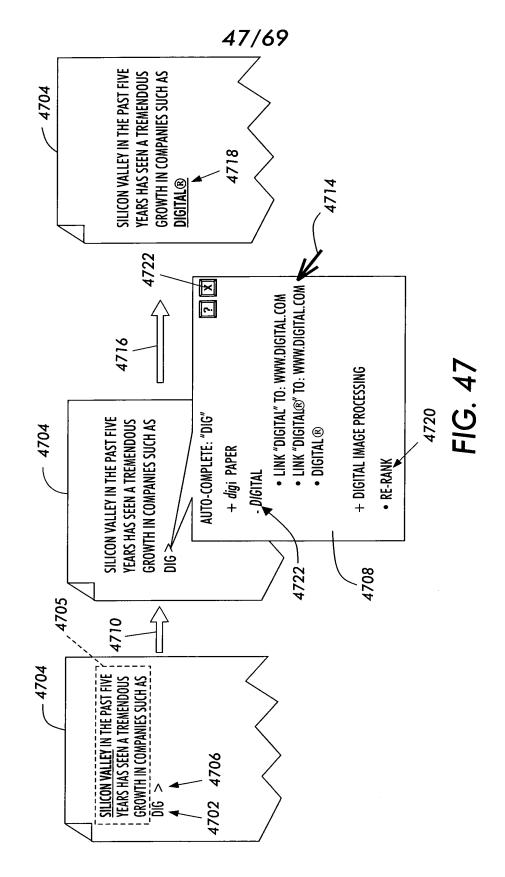


FIG. 46



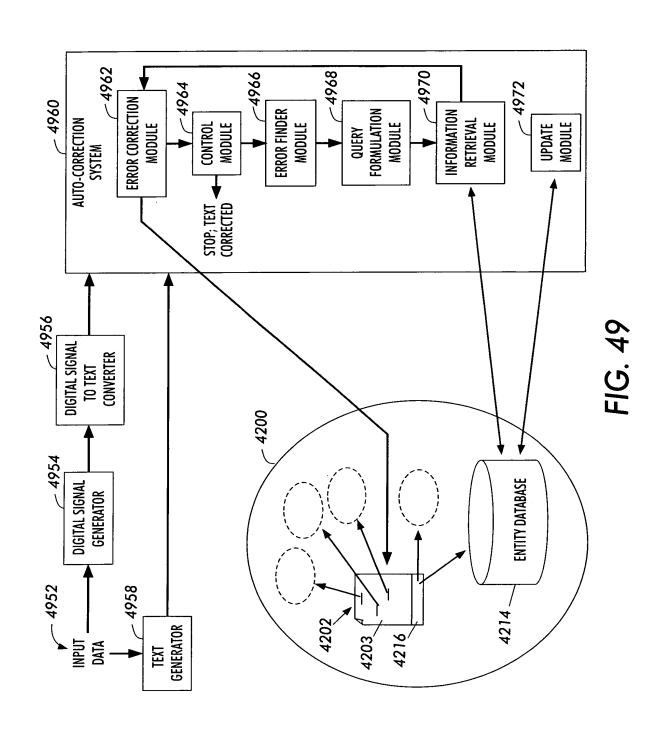




(A) KEY	(B) ENTITY	(C) MARKUP	(D) FORMAT	(E) ORIGIN	(F) ORIGIN POSITION	(G) PART OF (H) CONTEXT SPEECH	(H) CONTEXT
Sili	Silicon Valley	www.siliconvalley.com	Capitalize	TARGET DOCUMENT CONTENT	_	Noun	Science
Dig	Digital	www.digital.com	®	www.digital.com	434	Adjective	Science
Dig	DigiPaper	NONE	Bold	www.parc.xerox.com	23	Noun	Science
Dig	digress	NONE	NONE	www.nytimes.com	343	Verb	Politics
÷	:	:	÷			:	i

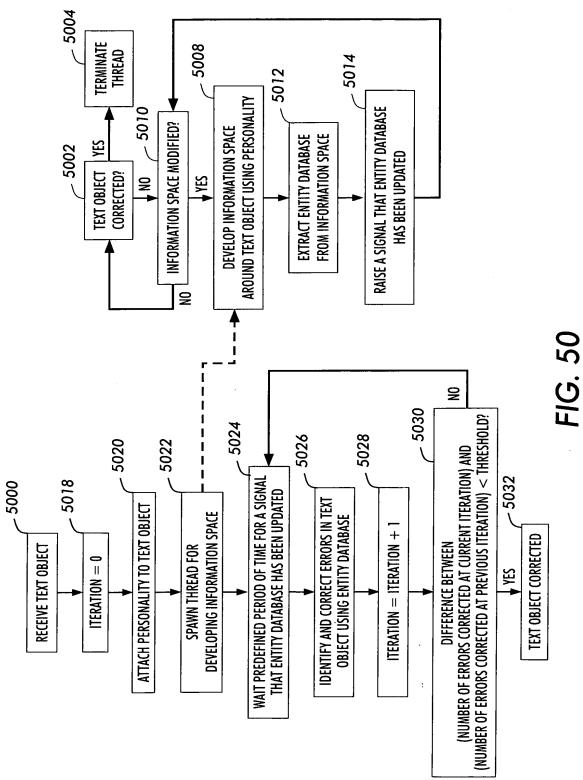
FIG. 48













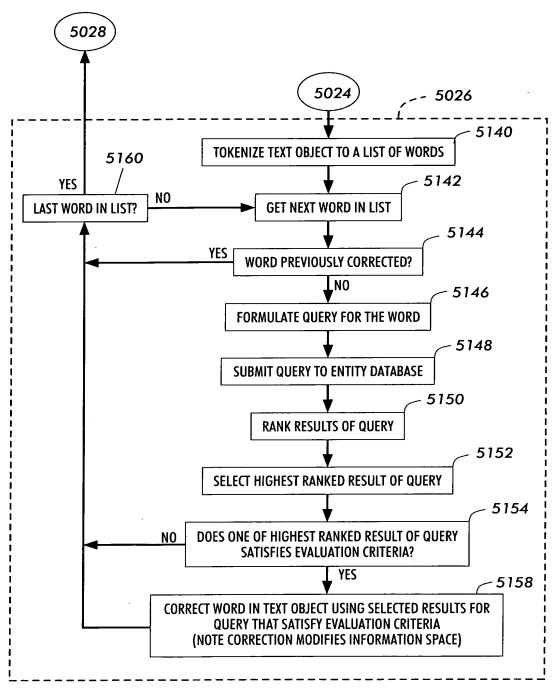


FIG. 51



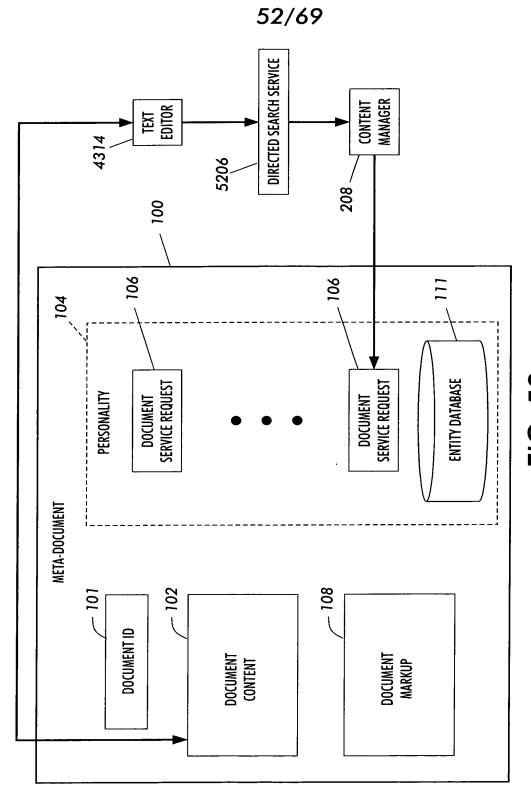


FIG. 52



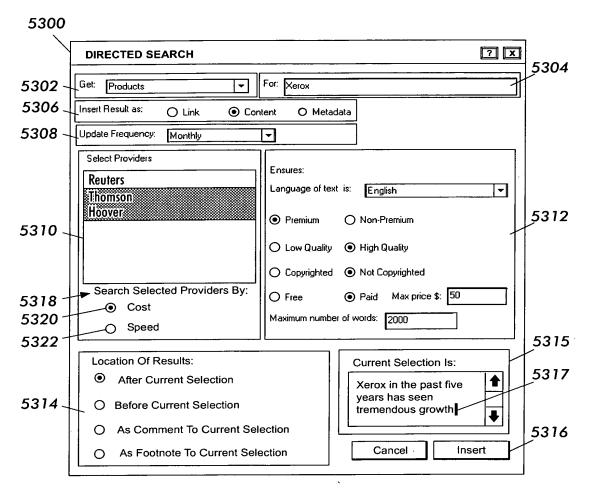


FIG. 53

PE 1 & 2003

2176 09/683 775 E APR 1 & 2003

quality='Premium&High&Not-copyrighted&paid' cprovider name='Thomson' id=18>/provider> cprovider name='Reuters' id=19></provider> 5400 <offsets>13 18 456 461 710 715</offsets> insert='Content' maxwords='2000' search='cost'> maxprice='50' <service id='Products' language='En' refresh=30 <entity>Xerox </entity>

FIG. 54

</service>



5500	
IMPORT/EXPORT	? x
EXPORT NAME: BROWSE	5502
EXPORT: ORIGINAL DOCUMENT CONTENT DOCUMENT MARKUP (I.E., ENRICHMENT) PERSONALITIES	5506 ADVANCED EXPORT CONTROL 5504
O IMPORT NAME: BROWSE	5508
IMPORT: • ALL CONTENT • SELECTED CONTENT ONLY	BIND UN-MATCHED ELEMENTS
ORIGINAL DOCUMENT CONTENT ODOCUMENT MARKUP (I.E., ENRICHMENT) PERSONALITIES	ENHANCE BOUND ELEMENTS WITH EXISTING SERVICE PROVIDERS
	5510 5514
	OK CANCEL

FIG. 55



```
<docsouls:browsingdoc format="HTML">browse.html</docsouls:browsingdoc>
                                                                                                                                                                                                                                                                                                                                                                  <docsouls:originaldoc format="HTML">toto.html</docsouls:originaldoc>
                                     <docsouls:serverid> DS v1.0 server name </docsouls:serverid>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <!- LIST OF PERSONALITIES AND DOCUMENT SERVICE REQUESTS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <docsouls:personality id = " " name="" etc.>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <docsouls:service id="" name="" etc.>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <docsouls:provider name="" etc.>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <docsouls:provider name="" etc.>
                                                                                                                                 <docsouls:docid> xxx </docsouls:docid>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <docsouls:service id="" name="" etc.>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <docsouls:provider name="" etc.>
                                                                                                                                                                           <docsouls:name> xxx </docsouls:name>
                                                                                                                                                                                                                                                                                                                   <!-- ORIGINAL DOCUMENTS DOCUMENT CONTENT>
                                                                                                                                                                                                                          <docsouls:owner> xxx </docsouls:owner>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <docsouls:provider name=""</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <!-- LIST OF SERVICE REQUESTS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   </docsouls:endowmentdescription>
                                                                                    <!- PROPERTIES OF DOCUMENT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <!-- LIST OF PERSONALITIES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <docsouls:endowmentdescription>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 </docsouls:service>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <docsouls:personality>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            </docsouls:service>
<!- SERVER ID>
```

FIG. 56



```
<docsouls:servicestatus status="mapped" originalid="" originalserver=""><</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <!-- list ServerId if the service was not available on current server>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <!-- list all fields (e.g., "refresh period", category, etc.)>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <!-- list status of services (original, frozen, mapped, etc.)>
                                                                                                                                        <!-- all the fields AND service categories>
                                                                                                                                                                                     <docsouls:servicecategory id="" name = "">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <docsouls:serverid>id</docsouls:serverid>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <!- DESCRIPTION OF DOCUMENT SERVICE REQUESTS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <docsouls:provider id="" name = ""><</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <!- NEXT SERVICE REQUESTS DESCRIPTION>
                                                                                           <docsouls:id> xx </docsouls:id>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <docsouls:id> xx </docsouls:id>
                                                                                                                                                                                                                                           </docsouls: personalitydescription>
<!- DESCRIPTIONS OF PERSONALITIES>
                                          <docsouls:personalitydescription>
                                                                                                                                                                                                                                                                                                                                     <!- NEXT PERSONALITY DESCRIPTION>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              </docsouls:servicedescription>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <!-- list all strategies>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <docsouls:servicedescription>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <!-- list all providers>
```

FIG. 57



```
KEYWORDS, CATEGORIES, ETC. >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <docsouls:content> xxx </docsouls:content>
                                                                                                        <!-- all the fields e.g. key, URL, etc.>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <docsouls:link> xxx </docsouls:link>
                                                                                                                                                                                                                                                                                                                            <!-- all the fields, e.g. category>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <docsouls:globalservice id="Summary">
                                                                                                                                                                                                                                                                                             <docsouls:id> xx </docsouls:id>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <docsouls:id> xx </docsouls:id>
                                                                        <docsouls:id> xx </docsouls:id>
                                                                                                                                               </docsouls: providerdescription >
                                                                                                                                                                                                                                                                                                                                                                 </docsouls:dictionarydescription>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <!- RESULTS OF GLOBAL SERVICES >
                                                                                                                                                                                                                    <!- DESCRIPTION OF DICTIONARIES>
                                                                                                                                                                                                                                                       <docsouls:dictionarydescription>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             </docsouls:strategydescription>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <docsouls:strategydescription>
                                   <docsouls:providerdescription>
<!- DESCRIPTION OF PROVIDERS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <!-all the dictionaries>
                                                                                                                                                                                                                                                                                                                                                                                                                                        <!- DESCRIPTION OF STRATEGY>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 </docsouls:globalservice>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <!- OTHER RESULTS (E.G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <!-all the fields>
```

FIG. 58A



```
<!-- LIST OF OFFSETS WHERE ENTITY IS FOUND IN TEXT RELATIVE TO SECTION >
<!- (OPTIONAL) DESCRIPTION OF ENRICHMENT PERFORMED AT OTHER DOCUMENT ENRICHMENT</p>
                                                                                                                                      <docsouls:personalitydescription>...</docsouls: personalitydescription>
                                                                                                                                                                                    <docsouls:servicedescription>...
                                                                                                                                                                                                                                                                                                                             <!- IDENTIFY DOCUMENT SECTION IN CASE OF MULTI-PART DOC>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <docsouls:normform>Xerox</docsouls:normform>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <!- STATUS OF SERVICE APPLIED ("ACTIVE" OR "FROZEN") >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <docsouls:content> xxx </docsouls:content>
                                                                                                                                                                                                                                                                                                                                                                            <docsouls:docpart>main frame.html</docsouls:docpart>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <docsouls:service id="StockQuote" status="active">
                                                                                                                                                                                                                                                                               (OPTIONAL) LIST OF RESULTS OF THE LAST ENRICHMENT >
                                                                                                                                                                                                                                                                                                                                                                                                                     <!- OFFSET WHEN ENRICHMENT APPLIES TO A SECTION>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <docsouls:strat> xxx </docsouls:strat>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <docsouls:offsets start=232 end=237 />
                                                                                       <docsouls:serverid>olderServerId</docsouls:serverid>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <docsouls:offsets start=35 end=40 />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <docsouls:dict> xxx </docsouls:dict>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <docsouls:link> xxx </docsouls:link>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <docsouls:offset> 0 200 </docsouls:offset>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <! -- CONTENT INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <!-- LINK INFORMATION >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <!-- NORMALIZED FORM >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <!-- DICTIONARIES >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <docsouls:entity>Xerox
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <!-- STRATEGIES >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    </docsouls:entity>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <!-- NEXT ENTITY>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          </docsouls:service>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <!-- ENTITY>
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FIG. 58B



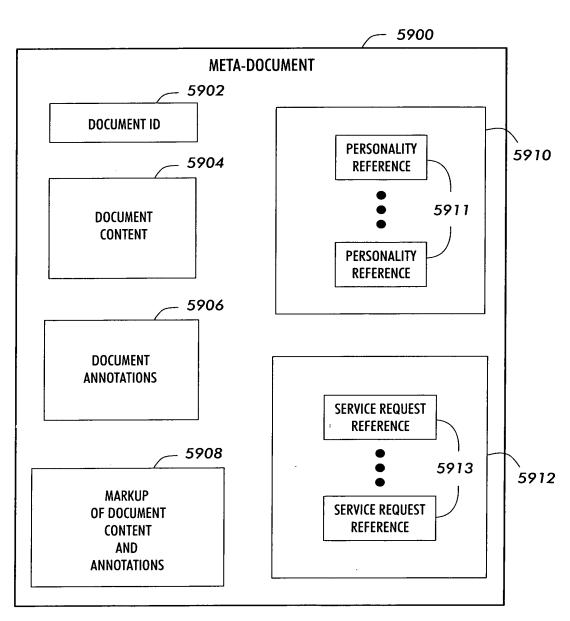


FIG. 59



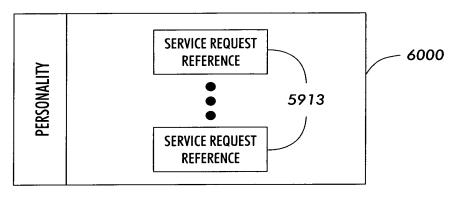


FIG. 60



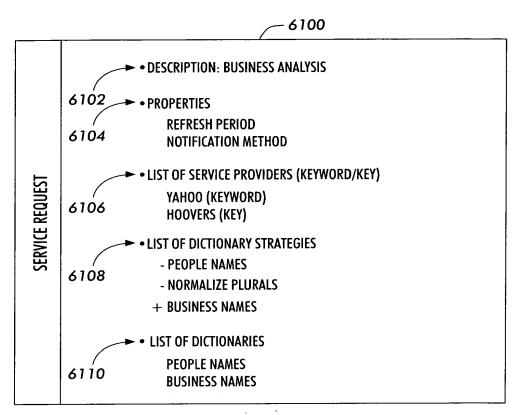


FIG. 61



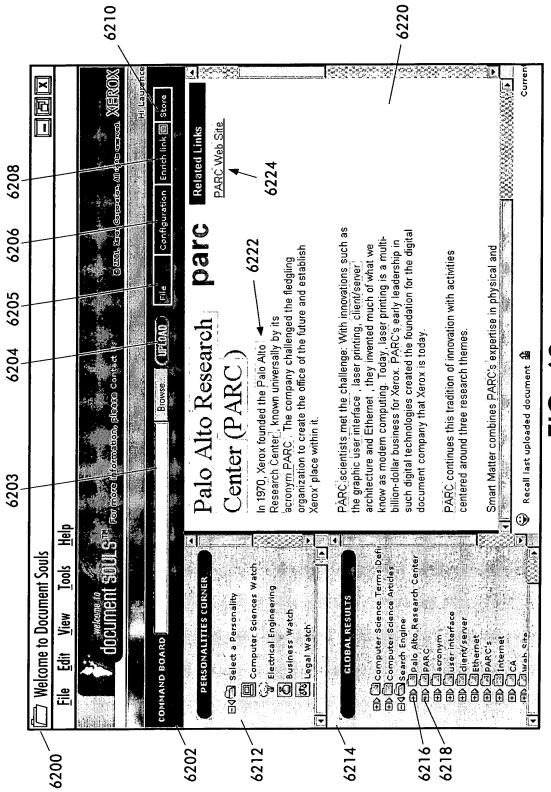


FIG. 62



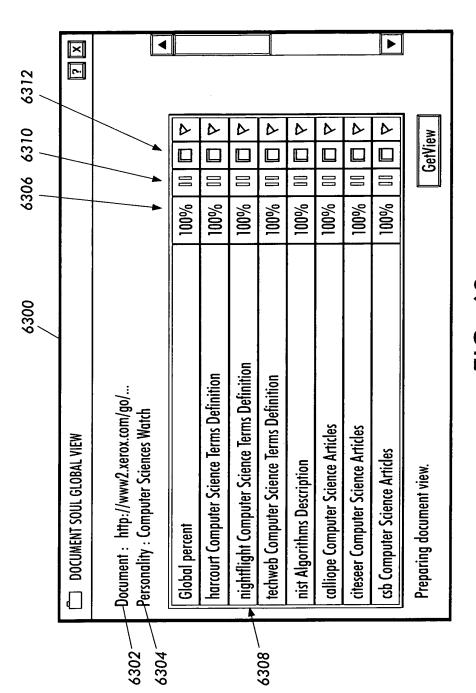


FIG. 63



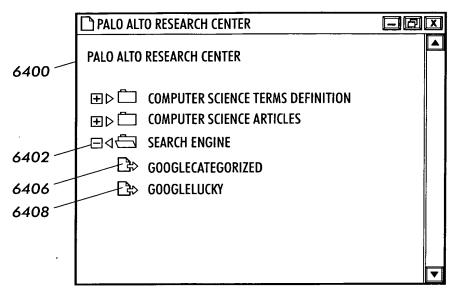
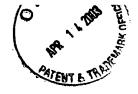


FIG. 64



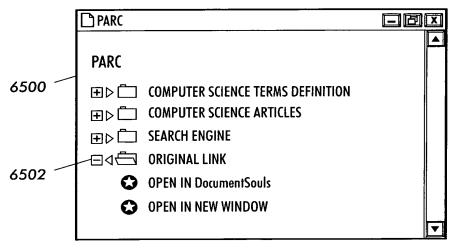
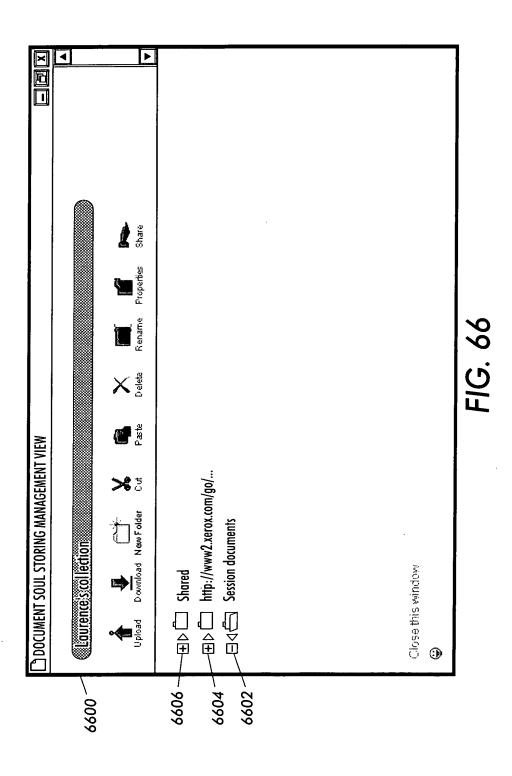


FIG. 65









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